

Figure 4, Type 2 PLL.

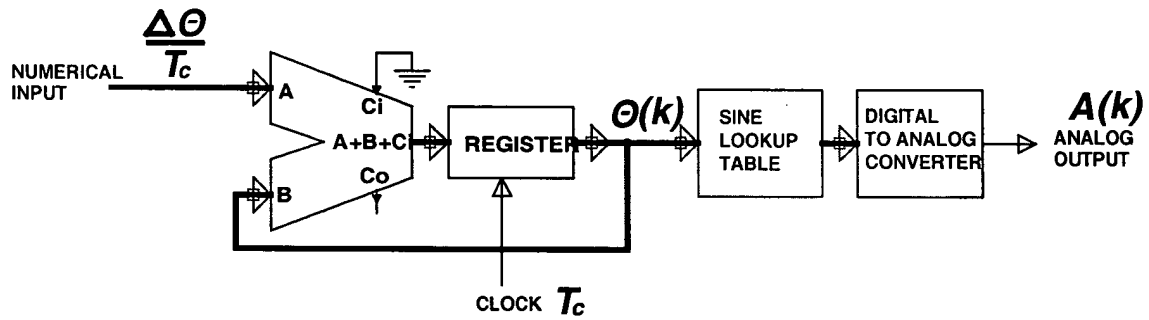


Figure 5, Embodiment of a numerically controlled oscillator.

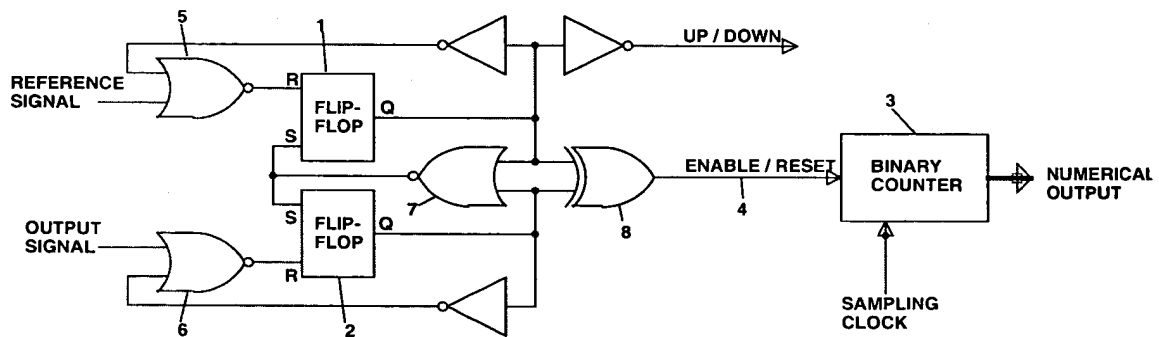


Figure 6, An embodiment of a numerical output phase detector.



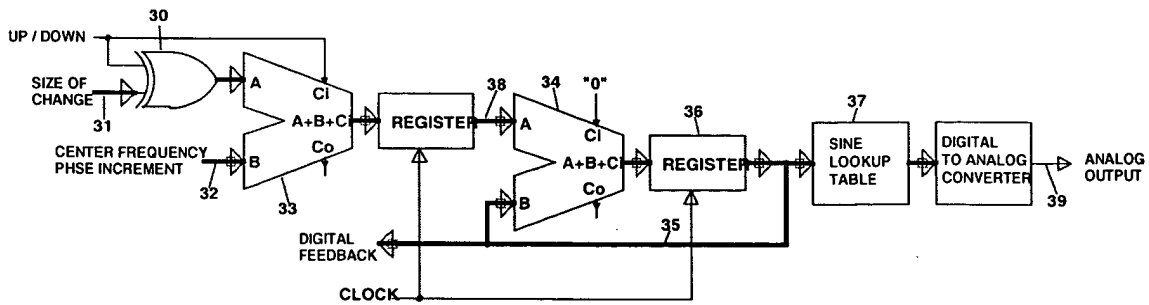


Figure 10, Embodiment of a modified NCO.

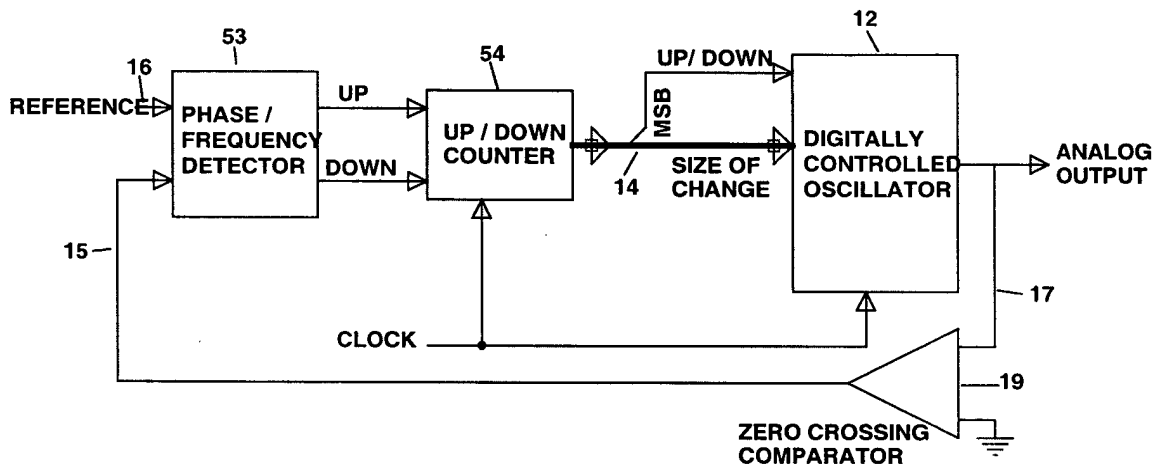


Figure 11, Block diagram of a Type 1 digital PLL.

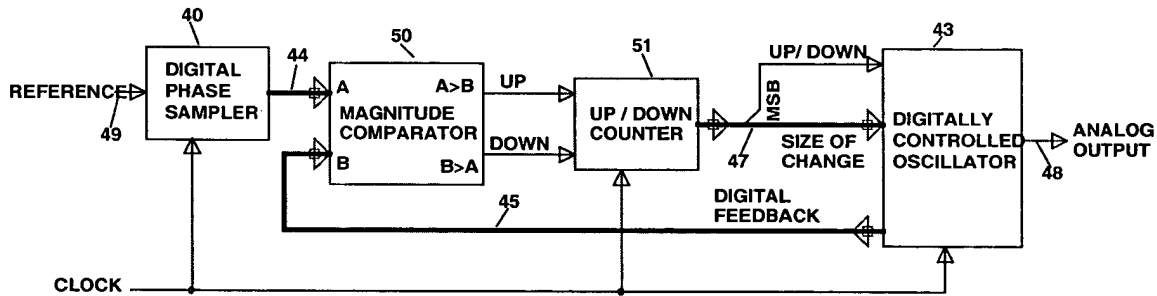


Figure 12, Block diagram of an alternative type 1 digital PLL.

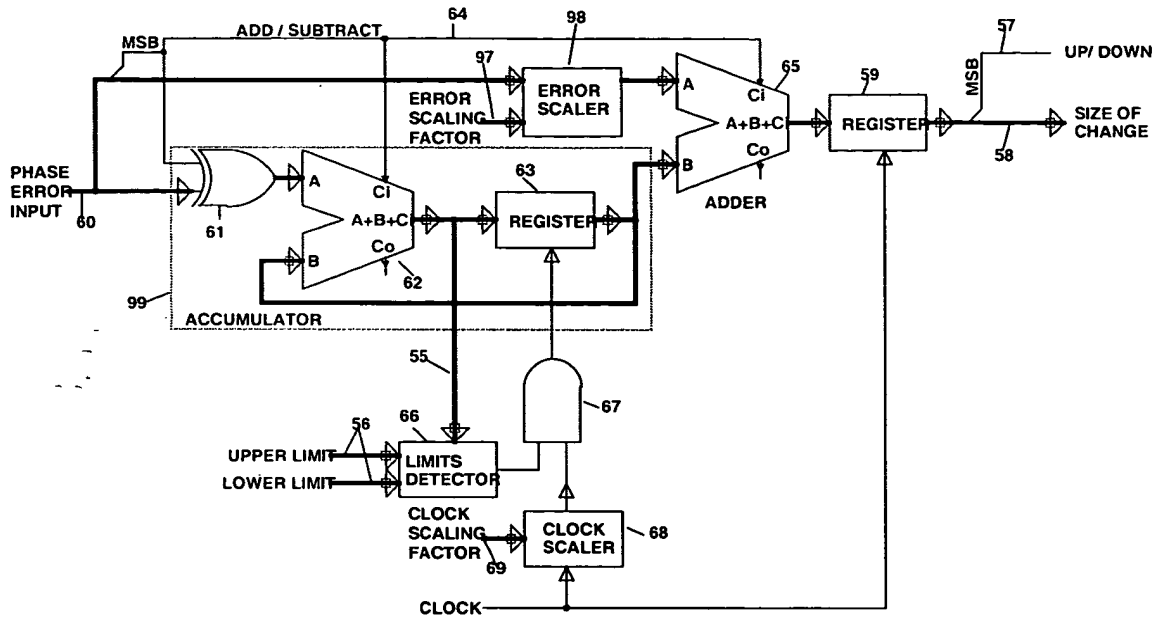


Figure 13, Details of an embodiment of a digital loop filter.

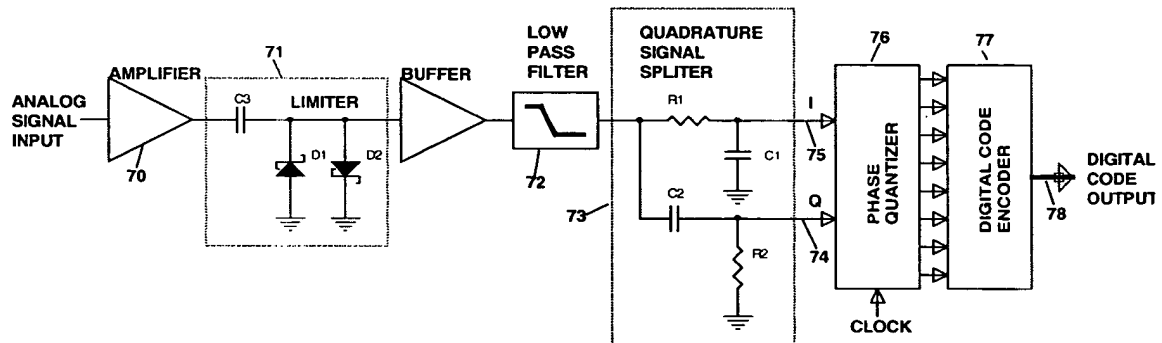
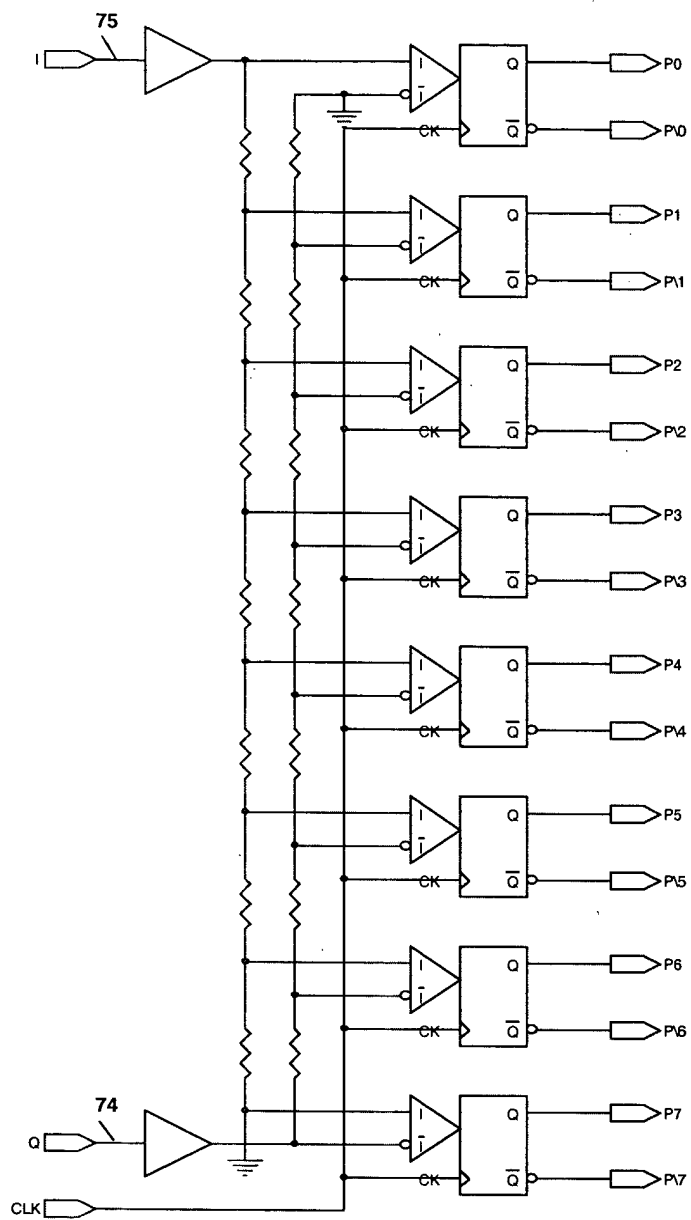


Figure 14, Embodiment of a phase digitizer.



**Figure 15, Embodiment of a phase digitizer.**